

## CLAIMS

What is Claimed:

1. An image processing method including:  
receiving input data;  
increasing a number of data bits of the input data;  
performing image processing on the input data with the increased number of data bits,  
wherein the image processing comprises enhancing an edge of the input data with the increased number of data bits;  
decreasing the number of data bits of the image-processed data; and  
providing data having a number of data bits substantially the same as the received input data.
2. The image processing method of claim 1, further comprising:  
increasing the number of data bits of the input data by multiplying the input data by a constant value and adding an offset value to the input data, wherein a word length of the data with the increased number of data bits is larger than that of the input data.
3. The image processing method of claim 1, further comprising:  
decreasing the number of data bits of the image-processed data by subtracting an offset value from the image-processed data and dividing a result of the subtracting by a constant value, wherein a word length of the data with the decreased number of data bits is smaller than that of the image-processed data.
4. The image processing method of claim 2, further comprising:  
decreasing the number of data bits of the image-processed data by subtracting an offset value from the image-processed data and dividing a result of the subtracting by a constant value, wherein a word length of the data with the decreased number of data bite is smaller than that of the image-processed data.